

**AMENDMENTS TO THE CLAIMS**

The following listing of claims replaces all prior versions and listings of claims in the above-referenced application:

1           1.-10. (Canceled)

1           11. (Currently amended)    A rapid diagnostic test system, comprising:  
2           a single-use module, comprising:

3               a medium containing a labeling substance that comprises first  
4               persistent fluorescent structures that emit light having a first frequency  
5               and second persistent fluorescent structures that emit light having a  
6               second frequency, wherein each of the first persistent fluorescent  
7               structures is attached to a substance capable of binding the first  
8               persistent fluorescent structure to a target analyte when a sample  
9               containing the target analyte is applied to the medium;

10              a light source positioned to illuminate a target area and a control area  
11              on the medium;

12              a first photodetector positioned to measure light of the first frequency  
13              originating from the target area of the medium;

14              a second photodetector positioned to measure light of the second  
15              frequency originating from the control area, wherein a signal from the  
16              second photodetector indicating an intensity above a threshold level  
17              indicates that the sample has passed through the target area; and

18              ~~an external~~ [a] terminal located on an external surface of the single-use  
19              module for conductively receiving electrical power from a source  
20              external to the single-use module for the light source, the first  
21              photodetector, and the second photodetector; and

22              a reusable module having a receptacle into which the external terminal of the  
23              single-use module can be inserted for providing the electrical power from the reusable  
24              module to the single-use module and communicating test signals between the single-  
25              use module and the reusable module.

1           12.   (Previously presented)   The system of claim 11, wherein the  
2 reusable module implements a user interface capable of indicating a test result.

1           13. - 20.       (Canceled)

1           21.   (Previously presented)   The system of claim 12, wherein the user  
2 interface comprises a display for the test result.

1           22.   (Previously presented)   The system of claim 11, wherein the test  
2 signals are electrical test signals.

1           23.   (Previously presented)   The system of claim 11, wherein the first  
2 and the second persistent fluorescent structures comprise quantum dots.

1           24.   (Canceled)

1           25.   (Canceled)

1           26.   (Previously presented)   The system of claim 11, wherein the medium  
2 comprises a lateral-flow strip for performing a binding assay, and the target area  
3 contains an immobilized substance that binds to and holds a complex including one of  
4 the first persistent fluorescent structures and the target analyte.

1           27. - 38.       (Canceled)

1           39.   (Previously presented)   The system of claim 26, wherein the second  
2 persistent fluorescent structures bind to the control area.

1           40.   (Previously presented)   The system of claim 11, further comprising:  
2           a first color filter that transmit light of the first frequency to the first  
3 photodetector and blocks other frequencies; and

4           a second color filter that transmit light of the second frequency to the second  
5    photodetector and blocks other frequencies.

1           41.   (Previously presented)   The system of claim 11, wherein the control  
2    area contains an immobilized substance that binds and retains to the labeling  
3    substance.